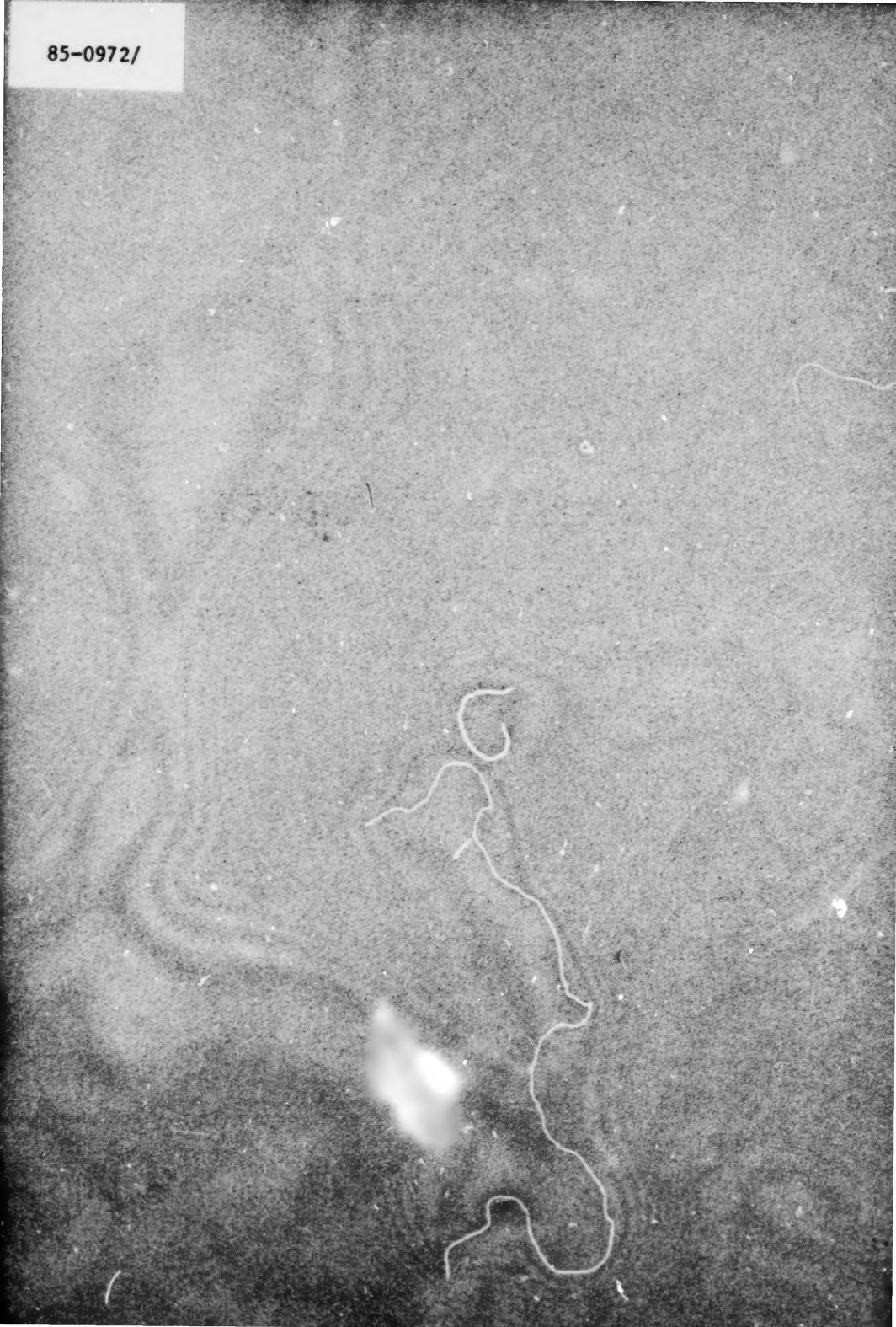
ACCIDENTS AT MINES

Prepared by

Mining Engineering and Inspection Section

For the year ending December 31st

1963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ACCIDENTS AT MINES - 1983

During 1983, 497 lost time injuries due to accidents were reported compared with 552 in 1982. A lost time injury is one which results in a worker being disabled during a working day after the day on which the accident occurred, and for which compensation becomes payable by The Worker's Compensation Board of Manitoba. Accidents that result in fatal injuries are included.

In 1983, the frequency of lost time injuries reported at mining operations in Manitoba increased by 8 per cent to 52 per million manhours worked from a frequency of 48 in 1982. This frequency is below the average frequency for the last 10 years, which is 61 per million manhours worked.

Employment at mines in 1983 decreased 7.8 per cent to an annual average of 5,778 persons employed from an average of 6,262 in 1982, while the manhours worked at mines decreased by 17.1 per cent to 9,497,984 manhours in 1983 from 11,451,686 in 1982.

The increase in the frequency of lost time injuries as compared with the 1982 figures was mostly due to an increase of 16 per cent in the largest group "Producing Mines". The smaller groups all except "Quarries", experienced decreased frequencies: "Developing Mines and Mining Contractors", down 4 per cent; "Mine Construction Contractors", down 10 per cent; "Quarries" up 3 per cent; "Gravel, Sand Pits, Clay, Bentonite, Peat", down 7 per cent; "Contract Diamond Drilling", down 45 per cent. The decrease in employment and manhours was reflected in all groups except the "Gravel, Sand, Bentonite, Peat" group.

A total of 15,103 days were reported lost due to injuries in 1983, compared with 10,598 in 1982, a 42.5 per cent increase. The severity rate at 1,590 days lost per million manhours, was also up by 71.8 per cent from 925 in 1982.

There were four fatal accidents in 1983 causing the death of four men. All fatal accidents happened underground. One accident claimed the life of a workman who fell when a staging broke, the second accident resulted when a vehicle was caught in an automatic vent door, the third was caused by a fall of loose ground and the fourth during mucking in undercut and fill pillars when timber holding the overhead sandfill, collapsed.

The major causes of injuries were "Lifting, Moving" 16 per cent; "Slips, Falls, Twists" 14 per cent; "Striking, Struck By" 11 per cent; and "Caught-machinery-equipment" 10 per cent. These four classifications accounted for 51 per cent of all injuries.

Sixty-eight (68) per cent of the injuries reported were classified as "Strains and Sprains" and "Cuts and Bruises".

Nineteen incidents were reported in which explosives were involved. One incident resulted in lost time injuries to one worker.

TABLE NO. 1

MANHOURS WORKED AND LOST TIME INJURIES - ALL MINING OPERATIONS

YEAR	PERSONS INJURED			DAYS LOST	MANHOURS WORKED	FREQUENCY PER MILLION MANHOURS WORKED		
	NON FATALLY	FATALLY	TOTAL			NON FATALLY	FATALLY	TOTAL
1983	493	4	497	15,103 *	9,497,984	52	0.42	52
1982	549	3	552	10,598 *	11,451,686	48	0.26	48
1981	742	1	743	16,155 *	13,016,922	57	0.08	57
1980	914	6	920	17,305 *	13,812,595	66	0.43	67
1979	807	4	811	17,882 *	13,158,509	61	0.30	62
1978	827	2 +	829	18,268 *	13,356,965	62	0.15	62
1977	924	12	936	16,353 *	15,012,725	62	0.80	62
1976	928	4	932	17,347 *	15,785,391	59	0.25	59
1975	1,121	9	1,130	17,871 *	17,109,983	66	0.53	66
1974	1,193	3	1,196	19,396 *	17,422,690	68	0.17	69
1973	970	11	981	18,679 *	16,202,092	60	0.67	61
1972	867	8 **	875	20,724 *	16,560,734	52	0.48	53
1971	562	13	575	14,459 *	18,693,620	30	0.70	31
1970	544	7	551	16,851 *	20,895,588	26	0.33	26
1969	607	8	615	18,804 *	20,897,335	29	0.38	29
1968	681	12	693	20,395 *	20,359,896	33	0.59	34
1967	764	9	773	20,297 *	17,336,372	44	0.52	45
1966	679	7	686	12,456	15,173,883	45	0.46	45
1965	594	4	598	11,965	13,873,103	43	0.29	43
1964	546	4	550	6,403	13,143,258	42	0.30	42
1963	618	8	626	9,778	13,101,057	47	0.61	48
1962	830	3	833	12,290	13,289,453	62	0.23	63
1961	1,101	7	1,108	11,898	12,241,625	90	0.57	91
1960	871	2	873	11,710	9,997,233	87	0.20	87
1959	747	5	752	12,165	8,342,391	90	0.60	90
			AVERAGE FREQUENCY FOR LAST 10 YEARS			61	0.34	61

* Includes days lost for injuries occurring in previous years.
** Does not include two fatalities investigated, but not classed as mining accidents.
\+ Does not include one fatality investigated, but not classed as a mining accident.

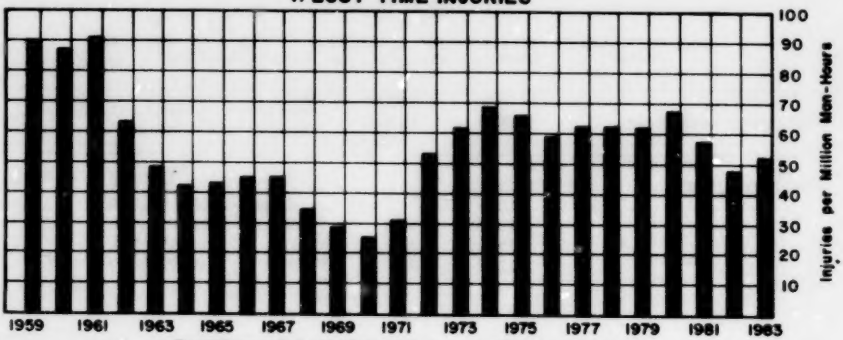
TABLE NO. 2

EMPLOYMENT - ALL MINING OPERATIONS

Number of Employees Reported Monthly - Average for 12 Months

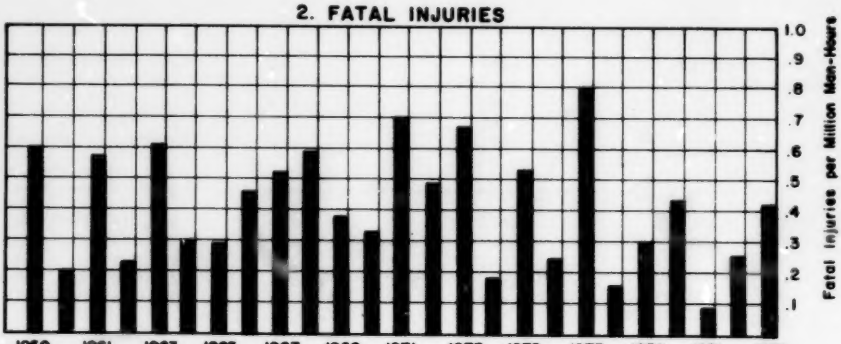
YEAR	PRODUCING MINES	DEVELOPING MINES AND MINING CONTRACTORS	MINE CONSTRUCTION CONTRACTORS	QUARRIES	GRAVEL AND SAND PITS, CLAY, PEAT, BENTONITE	CONTRACT DIAMOND DRILLING	TOTAL
	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E	GROUP F	
1983	4,567	141	91	162	672	145	5,778
1982	5,266	148	116	167	422	143	6,262
1981	5,781	292	137	147	562	216	7,135
1980	5,843	178	199	155	715	181	7,271
1979	5,438	184	173	174	793	170	6,932
1978	5,401	202	241	180	760	116	6,900

1. LOST TIME INJURIES



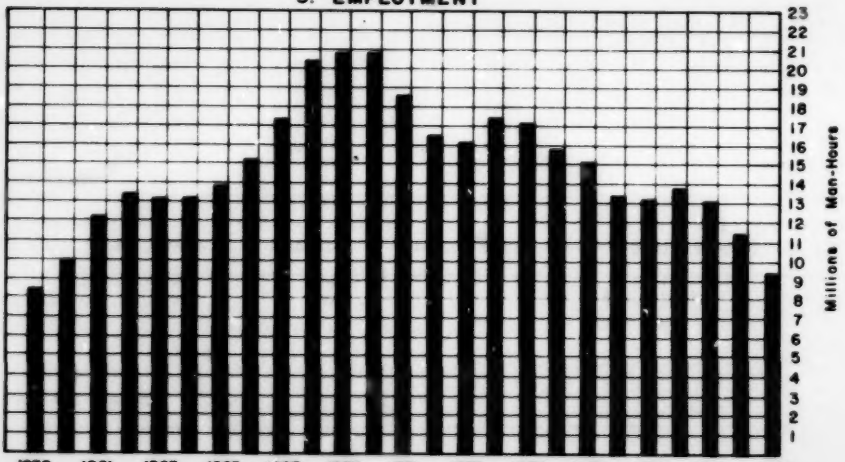
Frequency of Lost-Time Injuries at Mining Operations

2. FATAL INJURIES



Frequency of Fatal Injuries at Mining Operations

3. EMPLOYMENT



Man-Hours Worked at Mining Operations

TABLE NO. 3

MANHOURS WORKED AND LOST TIME INJURIES - BY CLASS OF OPERATION

CLASS OF OPERATION	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
PRODUCING MINES	1983	365	12,783	8,012,001	45.56
	1982	382	7,414	9,724,308	39.28
	1981	565	12,393	10,335,176	54.67
	1980	689	12,821	11,159,066	61.74
(GROUP A)	1979	627	14,256	10,220,337	61.34
DEVELOPING MINES AND MINING CONTRACTORS	1983	17	190	162,195	104.81
	1982	28	332	257,968	108.54
	1981	42	906	655,950	64.03
	1980	38	443	369,011	102.98
(GROUP B)	1979	49	1,298	402,134	121.85
MINE CONSTRUCTION CONTRACTORS	1983	8	103	114,629	69.79
	1982	36	627	300,392	119.84
	1981	15	620	261,777	57.30
	1980	20	575	437,792	45.68
(GROUP C)	1979	16	129	381,325	41.96
QUARRIES	1983	33	345	268,019	123.13
	1982	36	627	399,392	119.84
	1981	13	87	263,885	49.26
	1980	21	343	288,714	72.74
(GROUP D)	1979	7	93	319,700	21.89
GRAVEL, SAND PITS, CLAY, BENTONITE, PEAT	1983	63	1,293	734,206	85.81
	1982	66	1,590	714,097	92.42
	1981	70	621	946,636	73.95
	1980	87	1,423	1,108,415	78.49
(GROUP E)	1979	56	1,080	1,397,162	40.08
CONTRACT DIAMOND DRILLING	1983	11	389	206,934	53.16
	1982	24	351	249,437	96.22
	1981	38	1,528	553,498	68.65
	1980	65	1,700	449,597	144.57
(GROUP F)	1979	56	1,026	437,851	127.89
TOTALS - ALL MINING OPERATIONS	1983	497	15,103	9,497,984	52.33

TABLE NO. 4

MANHOURS WORKED AND LOST TIME INJURIES - BY COMPANY

PRODUCING MINES (GROUP A)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	2	322	96,853	20.65
	1982	0	0	104,180	0
	1981	0	0	214,627	0
	1980	2	133	184,774	10.82
	1979	1	20	68,372	14.63
ANDERSON LAKE					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	0	0	10,636	0
	1982	0	0	44,793	0
	1981	3	173	91,210	32.89
	1980	1	33	85,562	11.69
	1979	4	76	83,853	47.70
CENTENNIAL MINE					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	1	149	96,772	10.33
	1982	0	0	91,777	0
	1981	0	0	184,605	0
	1980	0	0	178,561	0
	1979	1	156	188,411	5.31
CHISEL LAKE					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	100	1,690	2,207,766	45.29
	1982	132	2,085	3,186,529	41.42
	1981	112	2,165	2,683,121	41.74
	1980	106	1,777	2,661,304	39.83
FLIN FLON SURFACE FLIN FLON UNDERGROUND	1979	106	1,516	2,499,536	42.41
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	0	0	7,527	0
	1982	0	0	6,697	0
	1981	0	0	15,502	0
	1980	0	0	22,605	0
	1979	0	0	24,793	0
GHOST LAKE-LOST LAKE					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	0	0	19,450	0
	1982	0	0	59,770	0
	1981	2	81	145,915	13.72
	1980	0	0	143,101	0
	1979	2	55	130,526	15.32
OSBORNE LAKE					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	0	0	222,731	0
	1982	1	74	319,252	3.13
SNOW LAKE SURFACE					

PRODUCING MINES (GROUP A) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	0	0	55,455	0
	1982	2	117	4,165	480.19
SPRUCE POINT					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	3	346	288,934	10.38
	1982	0	0	167,204	0
	1981	6	369	359,779	16.68
	1980	6	242	347,516	17.26
	1979	1	104	350,405	2.85
STALL LAKE					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	8	266	143,959	55.57
	1982	2	236	120,128	16.65
TROUT LAKE					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	6	261	106,371	56.41
	1982	3	15	105,381	28.47
	1981	10	291	135,192	73.97
	1980	16	134	124,415	128.60
	1979	11	499	123,179	89.30
WESTARM MINE					
HUDSON BAY MINING AND SMELTING CO., LIMITED	1983	0	0	0	0
	1982	1	31	36,552	27.36
	1981	3	284	84,835	35.36
	1980	1	94	48,769	20.50
	1979	0	195*	2,145	0
WHITE LAKE		(MINE CLOSED, END 1982)			
INCO METALS COMPANY	1983	3	150	80,007	37.50
	1982	1	38	84,225	11.87
	1981	5	119	94,983	52.64
	1980	5	242	109,624	45.61
	1979	7	461	114,651	61.05
PIPE LAKE					
SHERRITT GORDON MINES LIMITED	1983	5	28	28,681	174.33
AGASSIZ					

PRODUCING MINES (GROUP A) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
INCO METALS COMPANY	1983	50	6,388	3,036,212	16.47
	1982	82	2,941	3,601,458	22.77
	1981	137	6,339	3,601,117	38.04
	1980	244	6,425	4,466,041	54.63
THOMPSON SURFACE	1979	250	7,774	4,051,924	61.69
THOMPSON UNDERGROUND					
SAN ANTONIO JOINT VENTURE	1983	8	149	149,014	53.67
LTD.	1982	30	563	393,986	76.14
BISSETT		(OPERATIONS TEMPORARILY SUSPENDED, 1983)			
SHERRITT GORDON MINES	1983	54	1,285	674,056	80.11
LIMITED	1982	45	484	582,321	77.27
	1981	69	784	1,052,421	65.56
	1980	70	1,093	1,017,741	68.78
	1979	34	762	932,756	36.45
FOX MINE & LYNN LAKE					
SHERRITT GORDON MINES	1983	125	1,749	773,106	161.69
LIMITED	1982	80	740	625,694	127.85
	1981	209	1,555	1,426,012	146.56
	1980	225	2,483	1,536,320	146.45
	1979	194	2,274	1,450,841	133.71
RUTTAN MINE					
TANTALUM MINING	1983	0	0	14,471	0
CORPORATION OF CANADA	1982	3	40	190,690	15.73
LIMITED	1981	9	233	245,957	36.59
	1980	13	165	232,733	55.86
	1979	16	364	198,954	80.42
BERNIC LAKE		(OPERATIONS ON STAND-BY, DEC. 1982)			

DEVELOPING MINES & MINING CONTRACTORS (GROUP B)

AURORA QUARRYING LIMITED	1983	0	0	0	0
FOR: HUDSON BAY MINING	1982	0	0	1,119	0
AND SMELTING CO., LIMITED	1981	0	0	2,236	0
	1980	0	0	2,627	0
FLIN FLON	1979	0	0	5,980	0
WESTARM					
AURORA QUARRYING LIMITED	1983	12	131	55,317	216.93
FOR: HUDSON BAY MINING	1982	18	237	157,036	114.62
AND SMELTING CO., LIMITED	1981	13	245	126,055	103.13
	1980	7	87	79,198	88.39
SNOW LAKE	1979	5	53	36,657	126.40
SPRUCE POINT					

DEVELOPING MINES & MINING CONTRACTORS (GROUP B) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
AURORA QUARRYING LIMITED	1983	0	0	0	0
FOR: SHERRITT GORDON MINES	1982	0	0	0	0
LIMITED	1981	0	0	0	0
	1980	3	57	22,110	135.69
	1979	9	834	92,690	97.10
RUTTAN MINE					
FLIN FLON MINING	1983	0	0	0	0
CONTRACTORS FOR:	1982	0	0	0	0
HUDSON BAY MINING AND	1981	3	106	8,368	358.51
SMELTING CO., LIMITED					
CENTENNIAL MINE					
WESTARM MINE					
FLIN FLON MINING	1983	0	0	10,553	0
CONTRACTORS FOR:	1982	0	0	12,527	0
HUDSON BAY MINING AND					
SMELTING CO., LIMITED	1981	1	65	15,632	63.97
GHOST LAKE MINE					
R.F. FRY AND ASSOCIATES	1983	0	0	0	0
(PACIFIC) LIMITED FOR:	1982	0	0	0	0
HUDSON BAY MINING AND	1981	6	57	98,096	61.16
SMELTING CO., LIMITED	1980	2	23	6,587	303.63
TROUT LAKE					
R.F. FRY AND ASSOCIATES	1983	0	0	0	0
(PACIFIC) LIMITED FOR:	1982	0	0	0	0
HUDSON BAY MINING AND	1981	0	0	0	0
SMELTING CO., LIMITED	1980	2	24	27,477	72.79
	1979	5	65	93,420	53.52
WHITE LAKE					
KESMARK MARINE LTD.	1983	4	21	52,243	76.56
FOR: INCO METALS COMPANY	1982	7	29	58,393	119.88
THOMPSON					
F.A. MACINTYRE LIMITED	1983	0	0	0	0
FOR: HUDSON BAY MINING	1982	3	66	20,280	147.93
AND SMELTING CO., LIMITED	1981	6	137	69,991	85.73
	1980	8	57	46,340	172.64
	1979	17	217	52,062	326.53
OSBORNE LAKE MINE					

DEVELOPING MINES & MINING CONTRACTORS (GROUP B) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
PATRICK HARRISON AND	1983	0	0	0	0
COMPANY LIMITED FOR:	1982	0	0	0	0
SHERRITT GORDON MINES	1981	8	121	98,328	81.36
LIMITED	1980	15	194	142,775	105.06
	1979	3	31	20,432	146.82
RUTTAN MINE					
J.S. REDPATH LIMITED FOR:	1983	1	38	44,082	22.68
SHERRITT GORDON MINES	1982	0	0	8,613	0
LIMITED	1981	2	98	26,804	74.62
	1980	0	0	12,845	0
	1979	0	0	1,318	0
RUTTAN MINE (VARIOUS)					
SAN ANTONIO JOINT VENTURE	1983	0	0	0	0
LTD.	1982	0	0	0	0
	1981	3	77	210,440	14.26
	1980	1	1	29,052	34.42
BISSETT		(END PRODUCTION - 1982)			

MINE CONSTRUCTION CONTRACTORS (GROUP C)

CAMPBELL NORTH LTD.	1983	0	0	1,446	0
FOR: INCO METALS COMPANY	1982	0	0	4,097	0
	1981	0	0	11,603	0
	1980	1	5	40,406	24.75
	1979	0	0	39,272	0
THOMPSON					
CROWN TIRE SERVICE FOR:	1983	0	0	0	0
SHERRITT GORDON MINES	1982	0	0	0	0
LIMITED	1981	0	0	3,785	0
	1980	0	0	8,099	0
	1979	1	1	10,781	92.76
RUTTAN MINE					
DOMINION BRIDGE COMPANY	1983	0	0	0	0
LIMITED	1982	0	0	777	0
	1981	0	0	0	0
	1980	0	0	6,871	0
	1979	0	0	4,579	0
VARIOUS LOCATIONS					
LA FURLANE PRE-CAST LTD.	1983	0	0	3,801	0
FOR: INCO METALS COMPANY	1982	2	18	8,940	223.71
	1981	0	0	12,274	0
	1980	1	17	24,597	40.65
	1979	0	0	7,520	0
THOMPSON					

MINE CONSTRUCTION CONTRACTORS (GROUP C) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
GORDON A. MACEACHERN FOR:	1983	0	0	45,276	0
INCO METALS COMPANY	1982	4	58	66,542	60.11
	1981	0	0	68,105	0
	1980	1	35	105,338	9.49
	1979	3	23	104,268	28.77
THOMPSON					
MALCON CONSTRUCTION	1983	0	0	325	0
(THOMPSON) LTD. FOR:	1982	0	0	4,586	0
INCO METALS COMPANY	1981	0	0	2,365	0
	1980	0	0	2,398	0
	1979	0	0	1,747	0
THOMPSON T-1					
MARTEL ERECTORS LTD.	1983	0	0	0	0
FOR: SHERRITT GORDON	1982	1	30	1,762	567.54
MINES LIMITED					
BUTTAN MINE					
NORTHWEST ELECTRIC	1983	0	0	0	0
(FLIN FLON) CO. FOR:	1982	0	0	4,797	0
HUDSON BAY MINING AND					
SMELTING CO., LIMITED					
FLIN FLON					
NORTHWEST ELECTRIC	1983	0	0	6,139	0
(THOMPSON) CO. FOR:	1982	5	77	26,926	185.69
INCO METALS COMPANY	1981	1	8	20,550	48.66
	1980	1	1	41,203	24.27
	1979	0	0	13,875	0
THOMPSON T-1					
GEORGE RAMSAY CUSTOM IRON	1983	5	79	20,286	246.48
WORKS LTD. FOR: HUDSON	1982	2	42	24,254	82.46
BAY MINING AND SMELTING	1981	6	319	48,827	122.88
CO., LIMITED	1980	2	177	35,369	56.55
	1979	1	4	21,538	46.43
SNOW LAKE					
THYSSEN MINING CONSTRUCTION	1983	0	0	0	0
OF CANADA LTD. FOR:	1982	1	7	24,572	40.70
HUDSON BAY MINING AND	1981	4	41	33,839	118.21
SMELTING CO., LIMITED	1980	0	0	5,460	0
	1979	0	0	14,500	0
VARIOUS LOCATIONS					
PAMO CONSTRUCTION	1983	3	24	11,494	261.10
THOMPSON (MANIBRIDGE)					

MINE CONSTRUCTION CONTRACTORS (GROUP C) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
THYSSEN MINING CONSTRUCTION	1983	0	0	10,615	0
OF CANADA LTD. FOR: INCO	1982	1	52	38,261	26.14
METALS COMPANY	1981	1	119	47,889	20.88
	1980	14	340	146,464	95.59
	1979	0	0	9,878	0
THOMPSON					
THYSSEN MINING CONSTRUCTION	1983	0	0	0	0
OF CANADA LTD. FOR:	1982	0	0	0	0
SHERRITT GORDON MINES	1981	3	133	4,447	674.61
LIMITED	1980	0	0	11,166	0
RUTTAN MINE					
J.C. WILSON CONSTRUCTION	1983	0	0	588	0
FOR: SHERRITT GORDON	1982	0	0	0	0
MINES LIMITED	1981	0	0	8,093	0
	1980	0	0	10,421	0
	1979	0	17*	11,145	0
RUTTAN MINE					

QUARRIES (GROUP D)

BERGNER EQUIPMENT RENTALS	1983	0	0	2,500	0
LTD. FOR: DONTAR	1982	0	0	0	0
CONSTRUCTION MATERIALS LTD.	1981	0	0	4,520	0
	1980	0	0	3,195	0
	1979	0	0	3,311	0
GYPSUMVILLE					
BUCHKO ENTERPRISES LTD.	1983	1	54	18,040	55.43
	1982	1	27	37,122	26.94
BISSETT					
CAMBRIAN BLASTING CO. LTD.	1983	3	120	46,450	64.59
(BRODA CONSTRUCTION INC.)	1982	0	0	20,275	0
	1981	1	1	8,728	114.57
C.N.R. QUARRY (MILLWATER)					
CANADA CEMENT LAFARGE LTD.	1983	0	0	9,488	0
PLANT NO. 13A	1982	0	0	22,344	0
	1981	0	0	37,460	0
	1980	0	0	41,452	0
	1979	0	0	41,867	0
STEEP ROCK					

QUARRIES (GROUP D)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
CITY OF WINNIPEG PRIMARY MATERIALS DIVISION	1983	0	0	598	0
	1982	0	0	2,155	0
	1981	0	0	2,670	0
	1980	3	25	15,964	187.92
	1979	1	5	15,721	63.60
STONY MOUNTAIN					
COLD SPRING GRANITE (CANADA) LIMITED	1983	11	59	37,513	293.23
	1982	6	49	35,881	167.22
	1981	10	69	30,321	329.80
	1980	12	127	35,051	342.36
	1979	2	5	49,367	40.51
BROOKFIELD (LAC DU BONNET)					
GENSTAR CEMENT LTD.	1983	0	0	13,621	0
	1982	0	0	11,836	0
	1981	0	0	18,144	0
	1980	0	0	17,501	0
	1979	0	0	16,160	0
MAFEKING					
GILLIS QUARRIES LTD.	1983	17	108	52,483	323.91
	1982	16	271	65,192	245.43
	1981	0	0	55,977	0
	1980	1	91	47,688	20.97
	1979	1	71	60,235	16.60
GARSON					
MIDWEST QUARRIES LIMITED	1983	0	0	0	0
	1982	2	144	10,683	287.20
	1981	1	6	14,502	68.96
	1980	2	49	6,964	287.19
	1979	1	7	776	1288.65
STANDARD LIMESTONE QUARRIES	1983	0	0	16,795	0
	1982	6	81	32,100	186.92
	1981	0	0	2,823	0
	1980	1	40	43,746	22.86
	1979	0	0	45,203	0
STONEWALL (WINNIPEG)					
MULDER BROS. LTD. QUARRIES	1983	0	0	12,000	0
STONEWALL					

QUARRIES (GROUP D) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
STEEL BROTHERS CANADA LTD.	1983	1	4	44,034	22.71
	1982	2	7	43,610	45.86
	1981	1	11	45,805	21.83
	1980	2	11	47,843	41.80
	1979	2	5	49,890	40.08
FAULKNER					
STONEWALL QUARRIES LTD.	1983	0	0	0	0
(STANDARD LIMESTONE)	1982	3	48	8,219	365.01
	1981	0	0	7,604	0
	1980	0	0	5,696	0
STONEWALL					
WESTROC IND. LTD.	1983	0	0	13,717	0
	1982	0	0	9,245	0
	1981	0	0	21,650	0
	1980	0	0	18,044	0
	1979	0	0	13,290	0
AMARANTH					
WHITESHELL QUARRIES LTD.	1983	0	0	780	0
	1982	0	0	1,730	0
WINNIPEG					

GRAVEL AND SAND PITS (GROUP E)

ALSIP BRICK, TILE AND	1983	0	0	0	0
LUMBER CO., LTD.	1982	0	0	0	0
	1981	0	0	0	0
	1980	0	0	1,961	0
	1979	0	0	0	0
BEAUSEJOUR					
ARGO ROCK LTD.	1983	0	0	1,917	0
(FLUX PIT)	1982	0	0	6,352	0
	1981	0	0	7,159	0
	1980	0	0	8,307	0
	1979	0	0	13,088	0
THOMPSON					
BRADLEY SAND & GRAVEL LTD.	1983	2	8	27,890	71.71
	1982	3	128	30,401	98.68
	1981	2	12	30,317	65.97
	1980	7	61	39,614	176.71
	1979	6	107	37,472	160.11
BRANDON					

GRAVEL AND SAND PITS (GROUP E) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
BUILDING PRODUCTS & CONCRETE SUPPLY	1983	0	0	0	0
	1982	0	0	0	0
	1981	0	0	15,350	0
	1980	1	2	40,052	24.97
	1979	2	5	66,885	29.90
CITY OF WINNIPEG ENGINEERING DEPARTMENT	1983	0	0	11,645	0
	1982	1	10	5,407	184.95
	1981	1	1	6,249	160.03
	1980	0	0	14,983	0
BIRDS HILL AND PINE RIDGE	1979	1	5	16,691	59.91
FRASER SAND AND GRAVEL CO. LTD.	1983	4	35	32,718	122.26
	1982	2	5	26,283	76.09
	1981	3	34	49,173	61.01
	1980	1	7	48,730	20.52
	1979	1	10	59,265	16.87
GENSTAR MATERIALS LTD.	1983	0	0	0	0
	1982	1	4	21,964	45.53
BIRDS HILL AND BRANDON					
SHOOK BROS. LTD. FOR: IBCO METALS COMPANY	1983	3	90	48,894	61.36
	1982	1	25	13,140	77.10
	1981	0	0	39,198	0
	1980	1	4	33,651	29.72
THOMPSON	1979	2	17	24,319	82.24
STEEL BROTHERS CANADA LTD.	1983	0	0	11,828	0
	1982	0	0	1,159	0
	1981	0	0	24,567	0
	1980	2	93	26,244	76.21
BLACK ISLAND	1979	1	4	22,070	45.31
STEEL BROTHERS CANADA LTD.	1983	1	106	23,009	43.46
	1982	1	6	23,794	42.03
	1981	5	62	33,230	150.47
	1980	3	7	36,641	81.88
SELKIRK	1979	1	3	40,143	24.91
NOR-GRIT MFG. LTD. SLAG PIT	1983	0	0	6,380	0
THOMPSON					

GRAVEL AND SAND PITS (GROUP E) (continued)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
SUPERCRETE LTD.	1983	1	2	28,429	35.18
	1982	9	117	32,885	273.68
	1981	1	2	25,422	39.34
	1980	1	25	32,134	31.12
RICHER	1979	1	2	32,446	30.82
WESTERN CONCRETE PRODUCTS LIMITED	1983	0	0	0	0
	1982	0	0	0	0
	1981	0	0	0	0
	1980	0	0	0	0
BRANDON	1979	0	0	3,458	0
WINNIPEG SUPPLY & FUEL CO. LTD.	1983	0	0	0	0
	1982	0	0	8,133	0
	1981	3	22	9,944	301.69
	1980	1	9	18,137	55.14
GULL LAKE	1979	1	1	25,462	39.27
TOTALS OF ALL TRANSIENT GRAVEL AND SAND PIT OPERATIONS AS SHOWN ON THE NEXT PAGE	1983	8	117	257,260	31.10
	1982	12	863	277,869	43.19
	1981	15	181	345,453	43.42
	1980	18	803	472,998	38.06
	1979	17	750	818,894	20.75

GRAVEL AND SAND PITS (GROUP E) (continued).

TRANSIENT GRAVEL AND SAND PIT OPERATIONS (TOTALLED ABOVE)

NAME OF OPERATOR	P.O. ADDRESS	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED
Adams Concrete & Gravel	Deloraine	0	0	5,200
Altona Concrete Ltd.	Altona	0	0	6,500
Bordun Trucking	Sundown	0	0	1,200
B-A Construction (Niakwa)	Stonewall	0	0	6,941
Borger Industries	Winnipeg	0	0	15,720
Burton Construction Co., Ltd.	Brandon	1	5	7,000
Brandon, City of	Brandon	0	0	1,096
Canadian National Railway	Winnipeg	0	0	2,784
Cook Brothers Cartage Ltd.	Swan River	0	0	2,630
Cougnon, George	Marchand	0	0	1,200
Critchlow Trucking Ltd.	Melita	0	0	4,200
Danny's Sand and Gravel	Pipestone	0	0	1,120
Diamond Ready Mix	Steinbach	0	0	5,005
Derksen Trucking Ltd.	Altona	0	0	15,000
Dueck, John Trucking Cartage	Morris	0	0	1,400
Gillis Trucking Ltd.	Portage la Prairie	0	0	7,623
G. & E. Contractors Ltd.	Edwards L.	0	0	1,304
Gravelstone Supply Ltd.	Anola	0	0	1,080
Gull Lake Sand & Gravel	Gull Lake	0	0	9,705
Holovach Construction	Inglis	0	0	1,100
Joe's Gravel Pit	Notre Dame de Lourdes	0	0	2,600
Kachur Sand and Gravel	Winnipeg	0	0	9,325
Lakeshore Contracting (Man.)	Selkirk	0	0	3,461
Lester's Cartage	Winnipeg	1	20	7,560
M.A.C. Hauling Ltd.	St. Pierre	0	0	1,800
Marquette Gravel Supply	St. Eustache	0	0	2,325
Martin, Fred Ltd.	Beausejour	0	0	1,700
Marval Construction Ltd.	Stonewall	1	12	2,634
Meisner, Al Ltd.	Whitemouth	0	0	4,620
Munro, Hugh Construction	Winnipeg	0	0	11,235
Nelson River Constr. Ltd.	St. Boniface	0	0	6,565
Niakwa Construction Ltd.	Stonewall	0	0	24,544
Nickel Trucking Limited	Thompson	0	0	4,597
Pugh's Sand & Gravel Ltd.	Killarney	0	0	6,000
Riverside Gravel Co. Ltd.	Winnipeg	2	67	20,889
Sterling, C. & B. Enterprises	Grandview	0	0	1,253
St. Pierre Gravel Ltd.	St. Pierre	2	12	14,414
Ste. Rose Sand and Gravel	Ste. Rose	0	0	1,000
Selk-Ridge Gravel	Winnipeg	0	0	2,984
Springfield, R.M. of	Oakbank	0	0	2,430
Stanley, R.M. of	Nordon	0	0	1,200
Turtle Mountain Sand & Gravel	Boissevain	0	0	3,141
Wallace Sand & Gravel	Petersfield	1	1	1,600
Winkler Construction Ltd.	Winkler	0	0	4,180
Zachary Construction	Sandy Lake	0	0	1,885
Zenith Paving Ltd.	Brandon	0	0	5,420
TOTAL OF 65 OPERATORS EACH HAVING LESS THAN 1,000 MANHOURS	Various	0	0	10,150
		8	117	257,260

CLAY PITS (GROUP E)

NAME OF COMPANY	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
CANADA CEMENT LAFARGE LTD.	1983	0	0	0	0
	1982	0	0	5,796	0
	1981	0	0	8,839	0
	1980	0	0	7,592	0
	1979	0	0	12,333	0
PORT WHYTE					
CHEMTAR CEMENT LTD.	1983	0	0	0	0
	1982	0	0	970	0
	1981	0	0	1,926	0
	1980	0	0	3,059	0
	1979	0	0	1,487	0
TUXEDO					

BENTONITE (GROUP E)

PEMBINA MOUNTAIN CLAYS INC.	1983	0	0	5,322	0
	1982	0	0	5,448	0
	1981	0	0	5,490	0
	1980	0	0	5,783	0
	1979	0	0	4,608	0
MIAMI					
PEMBINA MOUNTAIN CLAYS INC.	1983	0	0	14,114	0
	1982	0	0	13,100	0
	1981	0	0	11,934	0
	1980	1	11	12,794	78.16
	1979	2	9	9,918	201.65
MORDEN					

PEAT (GROUP E)

FISONS WESTERN CORPORATION	1983	44	935	235,298	186.99
	1982	36	432	241,396	149.13
	1981	40	307	332,385	120.34
	1980	49	395	278,738	175.79
	1979	23	184	201,662	114.05
ELMA AND JULIUS					
PREMIER WEST PEAT	1983	0	0	29,502	0
	1982	0	0	0	0
GIROUX					

TABLE NO. 4

MANHOURS WORKED AND LOST TIME INJURIES - BY COMPANY

CONTRACT DIAMOND DRILLING (GROUP F)

CLASS OF OPERATION	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
AMISK DRILLING	1983	3	40	69,572	43.10
	1982	4	58	82,042	48.76
	1981	5	427	118,693	42.13
	1980	18	624	124,432	144.66
	1979	3	426	71,332	42.05
VARIOUS LOCATIONS					
CONNORS DRILLING LTD.	1983	0	0	0	0
	1982	0	0	0	0
	1981	0	0	0	0
	1980	0	0	2,655	0
	1979	0	0	617	0
VARIOUS LOCATIONS					
HEATH AND SHERWOOD DRILLING	1983	0	0	0	0
	1982	0	0	924	0
	1981	0	0	0	0
	1980	7	291	26,159	267.59
	1979	9	130	58,750	153.19
THOMPSON					
KENORA DIAMOND DRILLING LTD.	1983	0	0	475	0
	1982	0	0	924	0
	1981	2	37	19,961	100.20
	1980	0	0	12,437	0
	1979	5	75	21,240	235.40
VARIOUS LOCATIONS					
LONGYEAR CANADA INC.	1983	0	0	0	0
	1982	0	0	0	0
	1981	0	0	0	0
	1980	0	0	11,760	0
	1979	0	0	3,436	0
VARIOUS LOCATIONS					
R.H. McISSAC DRILLING	1983	2	145	30,072	66.51
	1982	6	69	27,6586	216.94
	1981	7	117	34,089	205.34
	1980	7	73	15,230	459.62
VARIOUS LOCATIONS					
MIDWEST DRILLING COMPANY	1983	5	105	84,148	59.42
	1982	10	143	101,057	98.95
	1981	21	930	323,412	64.93
	1980	27	615	206,811	130.55
	1979	26	287	184,139	141.19
VARIOUS LOCATIONS					

CONTRACT DIAMOND DRILLING (GROUP F) (continued)

CLASS OF OPERATION	YEAR	LOST TIME INJURIES	DAYS LOST	MANHOURS WORKED	FREQUENCY
N. MORRISETTE DIAMOND DRILLING	1983	0	0	0	0
	1982	0	0	0	0
	1981	0	0	0	0
	1980	1	5	3,312	301.93
	1979	1	21	24,665	40.54
SNOW LAKE					
WESCORE DRILLING LIMITED	1983	1	99	18,542	53.93
	1982	2	71	15,877	125.96
	1981	3	17	37,142	80.77
	1980	5	92	46,801	106.84
	1979	12	87	73,672	162.88
VARIOUS LOCATIONS					
WYNNE DRILLING LTD.	1983	0	0	4,124	0
	1982	2	10	20,955	95.44
	1981	0	0	16,145	0
BISSETT					

TABLE NO. 5

NUMBER OF LOST TIME INJURIES 1983 CLASSIFIED BY OPERATION OR WORK PERFORMED	MINES GROUPS A - B - C			GROUP D	GROUP E	GROUP F	
	SURFACE	UNDERGROUND	TOTAL MINES	QUARRIES	GRAVEL & SAND PITS, CLAY, BENTONITE, PEAT	CONTRACT DIAMOND DRILLING	TOTAL ALL MINING OPERATIONS
ROCK DRILLING	2	33	35	2	0	0	37
ROCKBOLTING	0	12	12	0	0	0	12
BLASTING	0	1	1	1	0	0	2
SCALING	1	17	18	0	0	0	18
TIMBERING - STAGING - CARPENTRY	2	12	14	0	0	0	14
MUCKING: HAND	1	2	3	0	2	0	5
MUCKING: MECHANICAL LOADING	11	10	21	2	2	0	25
SLUSHING	0	0	0	0	0	0	0
SCRAMS & DRAWPOINTS	0	2	2	0	0	0	2
CHUTE PULLING	0	5	5	0	0	0	5
MINE CARS - TRUCKS HANDLING	1	9	10	1	2	0	13
MECHANICAL HAULAGE	2	9	11	2	5	1	19
RAILWAY CARS: HANDLING	1	0	1	0	2	0	3
SURFACE TRUCKS, LOADERS	4	0	4	2	8	0	14
GRIZZLIES	0	2	2	0	0	0	2
CRUSHING	1	3	4	4	5	0	13
CONVEYORS	5	1	6	1	2	0	9
HOISTING: MEN - MATERIALS	1	6	7	0	0	0	7
MATERIALS HANDLING	35	5	40	3	13	1	57
TRAVELLING: LADDERS - STAIRS	2	7	9	0	0	0	9
TRAVELLING: LEVEL	12	3	15	3	5	1	24
INSTALLATION - MAINTENANCE + REPAIR	40	9	49	3	5	2	59
SHOPS: METAL WORK - SHEARING	2	0	2	1	1	0	4
WELDING - BURNING	3	2	5	1	3	0	9
SHARPENING - GRINDING	5	3	8	3	2	2	15
MILLS: TENDING - MILLS	10	0	10	0	0	0	10
TANKS - LINES	4	0	4	0	0	0	4
ROASTERS - SMELTERS - DRYERS	16	0	16	0	0	0	16
ROASTERS - TENDING FURNACES	9	0	9	0	0	0	9
ROASTERS - HANDLING FEED PRODUCTS	13	0	13	0	0	0	13
REFINERIES: CASTING	4	0	4	0	0	0	4
HANDLING ANODES - CATHODES	16	0	16	0	0	0	16
TENDING TANKS - LINES	17	0	17	0	0	0	17
DIAMOND DRILLING - GENERAL	0	0	0	0	0	2	2
DIAMOND DRILLING - MOVING, SET-UP	0	0	0	0	0	2	2
DIAMOND DRILLING - CUT LINES	0	0	0	0	0	0	0
NOT CLASSIFIED	14	3	17	4	6	0	27
TOTALS	234	156	390	33	63	11	497

TABLE NO. 6

NUMBER OF LOST TIME INJURIES 1983 CLASSIFIED BY OPERATION OR WORK PERFORMED	MINES GROUPS A - B - C			GROUP D	GROUP E	GROUP F	TOTAL ALL MINING OPERATIONS
	SURFACE	UNDERGROUND	TOTAL MINES	QUARRIES	GRAVEL & SAND PITS, CLAY, BENTONITE, PEAT	CONTRACT DIAMOND DRILLING	
MOBILE EQUIPMENT	8	2	10	1	5	1	17
STRIKING - STRUCK BY	24	15	39	12	4	1	56
BARS/OVER FULCRUM	6	2	8	0	1	1	10
HAND TOOLS	12	5	17	6	8	1	32
POWER TOOLS	13	2	15	0	2	0	17
CAUGHT BETWEEN MACHINERY-EQUIP.	21	25	46	1	3	0	50
SLIPS - FALLS - TWISTS: LEVEL	30	29	59	2	6	1	68
FALLS FROM HEIGHTS	2	10	12	0	2	0	14
LIFTING - MOVING	51	12	63	1	13	3	80
FALLS OF GROUND	0	21	21	0	1	0	22
FALLING OBJECTS	9	10	19	1	0	1	21
RUN OF LOOSE MATERIALS	4	3	7	0	1	0	8
FOREIGN BODIES	14	3	17	3	5	0	25
SHARP OBJECTS	6	5	11	2	1	0	14
HOT MATERIALS	8	0	8	0	0	0	8
CHEMICALS	6	1	7	0	0	0	7
COMPRESSED AIR - GASES	2	1	3	0	0	0	3
EXPLOSIVES	0	2	2	0	0	0	2
ELECTRICITY	2	0	2	0	0	0	2
STEAM	1	0	1	0	0	0	1
NOXIOUS GASES	0	3	3	0	0	0	3
FLASHES: ELECTRICITY, WELDING	2	1	3	0	1	0	4
FIRES	0	0	0	0	0	0	0
NOT CLASSIFIED	13	4	17	4	10	2	33
TOTALS	234	156	390	33	63	11	497

TABLE NO. 7

NUMBER OF LOST TIME INJURIES 1983 CLASSIFIED BY OPERATION OR WORK PERFORMED	MINES GROUPS A - B - C			GROUP D	GROUP E	GROUP F	TOTAL ALL MINING OPERATIONS
	SURFACE	UNDERGROUND	TOTAL MINES	QUARRIES	GRAVEL & SAND PITS, CLAY, BENTONITE, PEAT	CONTRACT DIAMOND DRILLING	
AMPUTATIONS	1	3	4	1	2	1	8
DISLOCATIONS	1	2	3	0	2	0	5
FRACTURES	8	19	27	1	5	1	34
MULTIPLE INJURIES	7	5	12	1	2	0	15
EYE INJURIES	12	5	17	0	1	1	19
HERNIA	2	1	3	0	0	0	3
STRAINS AND SPRAINS	95	48	143	12	14	3	182
CUTS AND BRUISES	75	47	122	15	16	5	158
CONCUSSIONS	0	2	2	0	0	0	2
BURNS - FLASH	4	1	5	0	1	0	6
BURNS - OTHER	17	2	19	0	0	0	19
ELECTRIC SHOCK	1	1	2	0	0	0	2
POISONING - ASPHYXIATION	0	3	3	0	0	0	3
INFECTION	3	1	4	0	3	0	7
DERMATITIS	2	2	4	0	0	0	4
NOT CLASSIFIED	6	14	20	3	7	0	30
TOTALS	234	156	390	33	63	11	497

INCIDENTS INVOLVING EXPLOSIVES - 1983

DESCRIPTION OF INCIDENTS	INJURIES
Diamond drillers drilled too close to bootlegs.	No injuries
An underground worker was found in possession of safety fuse assemblies which had been cut to approximately 6 inches and had been removed from his place of employment.	No injuries
An underground worker had returned to the magazine a cartridge of explosive, with a 3 m fuse assembly still attached.	No injuries
While an underground crew was cutting scrap pipe and roll bars with a cutting torch, an electric blasting cap, which had been hidden inside an old roll bar, exploded.	No injuries
An explosive blast was detonated prematurely due to the worker connecting the lead wires while the cable was connected to the power source.	Injured right forearm
Two persons walked into the area of an unguarded blast. A raise crew, who were driving a raise from one end of a stope, left the area unguarded when blasting a round.	No injuries
Two misholes were encountered in a raise which had been blasted 5 weeks earlier. Further drilling had been performed in the area in the intervening time.	No injuries
After placing an electrically initiated, single shot blast at the crusher chute, the blast exploded without the blaster having fired it.	No injuries
While drilling in a development drift, a jumbo crew drilled several holes in the area of the old cut and other holes close to bootlegs.	No injuries
After setting up a shot in a drawpoint, one man went to clear personnel from the area. Before he had completed this task, the second blaster initiated the blast electrically.	No injuries
140 bags of Amex explosive were transported in a truck in an improper manner.	No injuries
As a result of barring down a hang-up above the underground crusher, some muck fell into the crusher jaws. When this material was crushed, an explosion occurred. It is surmised that a blasting cap was present in the muck.	No injuries

INCIDENTS INVOLVING EXPLOSIVES - 1983

DESCRIPTION OF INCIDENTS	INJURIES
A primary stope blast at shift end caused a secondary sulphide explosion. Some of the atomisers used to control dust were improperly connected and others were not used at all.	No injuries
The skiptender set a pole shot inside the raise above the loading pocket in order to clean down the raise prior to enlarging it. Two men were working on a grizzly at the top of the raise. They were not notified and were subjected to concussion from the blast.	No injuries
A group of geologists encountered electric detonators and some explosive on surface. They destroyed the material improperly.	No injuries
An underground crew blasted large muck in a drawpoint improperly by sandblasting and caused a secondary sulphide ignition.	No injuries
A secondary sulphide ignition occurred subsequent to a primary stope blast, as a result of not following established procedures.	No injuries
A crew placed a secondary blast in a V.B.M. stope, to be fired from the level above. Although a procedure had been established initially to protect workers on the mucking level, changing conditions dictated a change in plans and some confusion resulted. This led to a man being at the brow of the opening where the blast occurred.	No injuries
While an operator was mucking from a drawpoint with a scooptram, an explosion occurred. It was surmised that the drawpoint blasting crew had inadvertently left a blasting cap on the muckpile after their last blast.	No injuries

SUMMARY OF FATAL ACCIDENTS - 1983

DATE AND PLACE	NAME	CAUSE
Jan. 26 - San Antonio Joint Venture Limited	Nathaniel J. Bird	Fell through a boxhole, a distance of 30'.
Apr. 21 - Sherritt Gordon Mines Limited Buttar Mine	Gilbert C. Verge	Caught between a closing ventilation door and the instrument panel of his scooptram.
Sept. 14 - Inco Limited T-1 Mine	Herbert Gerbrandt	Struck by a large piece of loose rock which fell from the stope back.
Nov. 29 - Inco Limited T-3 Mine	Jerome L. Brown	Struck by a timber which fell from the timbered back of the working place.

DETAILS OF FATAL ACCIDENTS

San Antonio Joint Venture Ltd.

Nathaniel James Bird, age 34, married with two dependants, died on January 26, 1983, in the Health Sciences Centre in Winnipeg from head injuries he sustained at approximately 1:40 p.m. on January 24, 1983, in the 1138N stope on the 11th level of the San Antonio Joint Venture Ltd. gold mine in Bissett. The injuries resulted from a fall of approx. 30' when a boxhole cover Mr. Bird was standing on broke.

Mr. Bird was hired by San Antonio Joint Venture Ltd. on November 30, 1981, and was promoted to the Miner I classification on January 3, 1983.

The 1138N stope was in the early stages of development. A sublevel 8' x 8' x 70' long had been driven 30' above base of rail on the 11th level and 3 boxholes connecting the sublevel with the 11th level had been driven approximately 20' apart. Chute construction was almost complete at the #1 boxhole, while #2 and #3 boxholes were still open between the 11th level and the sublevel.

At approximately 8:00 a.m. on the morning of the day of the accident, Shift Boss Andre Philippon instructed the crew of Peter Sinclair, Miner I, and James Bird, to establish a manway in the #3 boxhole, clean muck from around the top of #2 boxhole and drill and blast a footwall slash between #2 and #3 boxholes.

After Mr. Philippon's first visit to the workplace at 9:00 a.m., Mr. Sinclair and Mr. Bird, in addition to the work assigned, elected to construct a cover over the #2 boxhole and drill a back slash above the cover. They then gathered planks and ladders from a storage area some distance away on the 11th level. When Mr. Philippon next checked the workplace at approximately 11:30 a.m., the crew was working on the manway construction. When this task was completed, they proceeded to construct the cover over the #2 boxhole.

Shortly after 1:30 p.m. they had completed construction of this cover and Mr. Bird was standing on the hanging wall side of the cover preparing to start drilling when the cover broke. Mr. Sinclair who was also on the cover managed to retreat to safety but Mr. Bird fell through the boxhole some 30' to the 11th level.

Mr. Sinclair descended to the 11th level where he noted that Mr. Bird was unconscious and had sustained head injuries. He immediately summoned assistance and Bird was conveyed by stretcher to surface. At approximately 3:00 p.m., with a nurse in attendance, Bird was transferred to an aircraft for transportation to the Health Sciences Centre in Winnipeg. He arrived at the Health Sciences Centre at approximately 5:00 p.m. but died at approximately 4:00 p.m. on January 26, 1984, without regaining consciousness.

Investigation of the accident revealed that the cover over the #2 boxhole was constructed by laying seven 2" x 8" planks six feet long over two parallel 16' ladders installed longitudinally over the boxhole. The ladders were placed 5' apart with each end resting on approximately 2' of broken ore, coned above the sill, on either side of the opening. The footwall ladder was strengthened with the addition of a 2" x 8" x 12' plank placed over the rungs. The ladder on the hanging wall side had no additional support, and this ladder, over which Bird and the drill were positioned, broke near the centre.

As a result of the accident, an inspection notice was issued by the area Mines Inspector requiring:

1. a standard design for construction of covers over open holes;
2. safety belts to be worn near dangerous openings.

As a result of the accident, charges were laid but were subsequently stayed. The mine ceased production in May 1983.

Sherritt Gordon Mines Limited

Mr. Gilbert C. Verge, 27 years of age, married with one dependant, was fatally injured on April 21, 1983 while operating a Jarvis Clark JS-800 8 cu.yd. load-haul-dump (L.H.D.) unit on 400m level of Sherritt Gordon Mines Ltd., Ruttan Mine. Death occurred as a result of the operator being caught between a closing ventilation door and the instrument panel of his machine.

Mr. Verge was hired on August 12, 1980. He was licenced as a L.H.D. operator on October 7, 1981, and had been employed in this capacity since that time.

On the day of the accident, Mr. Verge reported for the afternoon shift at 4:00 p.m. Mr. W. Henderson, shiftboss instructed him to pick up the 8-yard L.H.D. unit from the 430m level and take it to the 400m level to muck out a waste slash at the 12D stope, No. 1 Drawpoint.

Access to the 400m level for mobile equipment is from the "C" Vehicle Decline, located in the footwall of the ore lenses. The 400 West Access drift branches off the "C" Vehicle Decline about two-thirds of the way around a 180 degree turn. The decline leads on down to the 430m level, while approximately 385m up the decline is the 380m level turn-off where the orepass is located.

The 400 W. Access Drift services the several stopes at this elevation, which is mainly used as a sublevel for drilling and blasting. The 12D stope however did have drawpoints developed and ore was moved by L.H.D. unit along the 400 W. Access Drift, and up the "C" Vehicle Decline to the orepass on 380m level. There was also development rock to be removed from the 12D stope area.

Approximately 20m from the intersection of the decline and drift, a set of ventilation doors was installed. These doors consist of two halves, hinged on their outside edges. The doors open towards the decline and when closed they meet in the centre of the door frame. Each door is 3.34m high, 2.02m wide and consist of a frame of 50mm angle-iron, crossbraced at the center and covered with 18mm plywood. The doors are activated by two switches mounted on the drift back, one being 13.4m away from the door on the side leading to the decline and the other on the opposite side 15.6m away from the door. The switches are operated by pullcords which hang down approximately 2m. The switch activates an air valve which feeds compressed air to double acting cylinders which open or close the doors.

On arriving at the 430m level, Mr. Verge found his L.H.D. unit required repairs which took until lunch time (8:00 p.m.) to complete. The shiftboss then instructed Mr. Verge to muck the waste and to dump it in 14D stope on the 400m level if the timber crew had completed the dump block. At approximately 8:20 p.m. Mr. Henderson checked the dump area and since the block was not completed, instructed Mr. Verge to muck ore instead, from the 12D #1 drawpoint. Mr. J. Splettstoesser was operating a similar machine on the same route.

At approximately 9:00 p.m. Mr. Splettstoesser had just entered the "C" Vehicle Decline when he heard the scooptram operated by Mr. Verge returning from the dump. He backed down the ramp to clear the Access Drift entrance, turned off his lights and waited for Mr. Verge to enter the Access Drift. Immediately after Mr. Verge's machine cleared the intersection, Mr. Splettstroesser started up the decline and as he was passing the Access Drift, he heard a loud crash and looking into the drift, saw that Mr. Verge's machine was caught between the partly closed ventilation doors. Mr. Splettstoesser stopped his machine, ran to the doors and switched off the motor of Mr. Verge's machine. Mr. Verge was pinned between the instrument panel and the left hand door. There was little Mr. Splettstoesser could do to extricate Mr. Verge so he obtained the assistance of two timbermen on the level and proceeded to the 370m level shop where arrangements were made for the ambulance, cutting torches, first aid attendant and the doctor.

The first aid attendant, Mrs. B. Spurrell, arrived at 9:25 p.m. She could find no pulse.

Cutting torches were required to cut the angle-irons before Mr. Verge could be released.

Dr. Scott arrived from Leaf Rapids at 9:40 p.m. and pronounced Mr. Verge dead at 10:05 p.m.

Investigation revealed that the doors had been left in the open position during the time that Mr. Splettstroesser and Mr. Verge were mucking. The pull cord on the door switch on the decline side of the doors was broken and the missing piece was found on the ground approximately 10 feet behind the L.H.D. unit. Measurements of the broken cord, and the piece remaining on the switch indicate that the cord, prior to being broken would have extended below the top of the machine. Therefore it would appear that the cord caught on the machine, activating the switch and air cylinders causing the doors to begin closing.

An inquest under "The Fatalities Inquiry Act" was held before his Honour Judge J.P. Drapack, on October 19, 1983, at Leaf Rapids.

The court found that ".... death did not result in whole or in part from the unlawful act or culpable negligence of any person, or persons".

The court made no recommendations.

Inco Limited

Mr. Herbert Gerbrandt, aged 37, single, without dependants, was fatally injured by a fall of ground in the 230 stope on the 3200 level of Thompson T-1 Mine of Inco Metals Company on September 14, 1983, at about 1:05 p.m.

Mr. Gerbrandt had worked for Inco since November 16, 1970, and for 8 years in 230 stope. He had worked under the same shiftboss for the preceding 3 years, and with his stopeleader for 2 years. At the time of the accident, he was working as a driller, but his qualifications included L.H.D. Operator, Production Trammer, Stope Leader and Trade Qualified Miner.

The 230 stope is a mechanized cut and fill stope 800 feet in length and averaging 15 feet in width. It was silled on the 3200 level and mined by drilling and blasting horizontal slices or cuts 8 - 10 feet in height. As each cut is mined, a similar depth of hydraulic fill is placed to leave an open working area approximately 8 feet in height. This procedure had been followed for 20 cuts or approximately 150 feet. Manways are left in the fill to provide access to the 3200 level. Two service raises had been driven to the 2800 level above for ventilation and access.

On the day prior to the accident, the initial blast to start the 21st cut had been made, forming an opening 15 feet wide, 25 feet long and 8 feet in height above the back of the 20th cut. Access to this area was from the south, and mining was to continue north from the new cut. The south face of the new cut would be left temporarily and designated as the "hanging breast". At the beginning of the shift on September 14, 1983, the crew of the 230 stope, consisting of Hervin Templeton - stope leader, Herbert Gerbrandt - driller, and Joseph Farina - driller, was instructed by the supervisor Wayne Lapierre to proceed to the stope, condition the hanging breast and to commence scaling in the new cut. The drillers were still scaling when Vic Sapach, General Foreman, visited the stope. After examining the new cut, he instructed Mr. Templeton to blast down loose in the new cut and install additional rockbolts in the hanging breast. Mr. Lapierre arrived at approximately 11:00 a.m., after this blast. He examined the area and scaled the first 3 or 4 feet from the hanging breast. He then instructed the crew to continue bolting the hanging breast then build a small staging under the scaled area to continue scaling. The staging would be necessary to reach the back of the new cut. Following a lunch break, the crew completed bolting the hanging breast and scaled as far as possible from the small

staging at the hanging breast. Mr. Templeton then decided to extend the staging so that scaling operations could be advanced further into the new cut. Mr. Templeton was holding a staging stringer while Mr. Gerbrandt was moving a ladder ahead when a large piece of loose fell from the back directly on Gerbrandt and lacerating Mr. Templeton's arm. The time was approximately 1:00 p.m.

Rescue operations were initiated immediately. A hydraulic jack was required to free Mr. Gerbrandt. Mr. C. Bonnet - First Aid Attendant, and Mr. D. Dnistransky - Underground Superintendent, arrived at approximately 1:35 p.m., shortly after Mr. Gerbrandt had been removed. C.P.R. was administered but there was no response. Dr. A. Rich arrived at approximately 1:50 p.m. and pronounced Mr. Gerbrandt dead.

Investigation revealed that the piece of loose which fell measured 9 feet by 5 feet by 1 foot thick and would weight approximately 3 1/2 tons. At this location, the orebody consists of a central zone of quartzite pegmatite with sulphide matrix ore along both hanging wall and footwall. Both hanging wall and footwall contacts are sheared and three well defined joint sets are present. The piece of loose was bounded by the ore quartzite contact and the joint sets.

An inquest under "The Fatalities Inquiry Act" was held before her Honour Judge Jane Maurer on June 27, 1984, at Thompson.

The court reserved its decision.

Inco Limited

Mr. Jerome L. Brown, 32 years of age, married, was fatally injured when struck by a falling timber in the 315 Crown Pillar on the 1200 level of Thompson T-3 Mine of Inco Metals Company on November 29, 1983, at about 10.00 a.m.

Mr. Brown had worked for Inco since May 1976 and had worked in the 315 Crown Pillar for approximately 2 1/2 years. He was qualified as a scooptram operator and also as a stope leader.

The 315 workplace is approximately 550 feet in length and up to 80 feet wide. The mining method employed is mechanized undercut and fill whereby longitudinal panels, 12 feet wide, are mined in sequence while retreating from hanging wall to footwall.

At the time of the accident, the hanging wall panel of the second cut below the 1000 level was being mined. Access was provided by an extension of the footwall ramp to the required elevation followed by a haulageway driven under the log mat floor to the hanging wall, which it intersected at 45 degrees. Mining had already progressed 60 feet south and 20 feet north of the intersection of haulageway and hanging wall.

The log mat consisted of transverse logs supported by longitudinal 12" x 12", laminated stringers which were themselves supported by vertical posts, installed as mining advanced. At the intersection of the hanging wall and the haulageway, two additional stringers had been installed, one longitudinally and the other transversely. The longitudinal stringer was supported by a post at the north end and by a transverse stringer at the south end.

At the beginning of the day shift on November 29th the crew in 315 pillar consisted of Alex Woytkiw - stope leader, Rod Bryan - driller, and Jerome Brown - scooptram operator. Mr. L. Halchyshak, the mine foreman, while in the 1000 level lunchroom, instructed the crew to remove sandpipe, prepare the south face, muck out the north face, stand posts and begin drilling.

After entering the workplace and checking the conditions, Messrs. Woytkiw and Bryan started working in the south end while Mr. Brown serviced the scooptram. Prior to Mr. Brown starting to muck, he was instructed by Mr. Woytkiw to remove the post supporting the north end of the additional longitudinal stringer in order to facilitate access to the face.

After completing his work in the south end, Mr. Bryan went to assist Mr. Brown in the north face. At this time Mr. Brown was mucking the north face by backing in towards the south face. After removing several buckets in this manner, Mr. Brown reversed the scooptram in order to muck towards the hanging wall. In order to facilitate this operation Mr. Brown removed another post, this time from beneath the hanging wall stringer.

While Mr. Brown operated the scooptram, Mr. Bryan helped him by removing muck from behind the posts with a grub hoe. After approximately forty-five minutes, the two men stopped work to discuss the reinstallation of the hanging wall post plus the installation of a second post closer to the face. At this time, Mr. Brown was seated in the scooptram which was parked underneath the additional longitudinal stringer.

At approximately 10.00 a.m. while the two men were still discussing the posting, a loud crack was heard and a section of log mat 16' x 11' collapsed followed by approximately 70 tons of cemented fill. Mr. Brown apparently tried to reverse the scooptram to safety but the additional stringer, now only secured at the south end, swung down striking him and pinning him to the seat. Mr. Bryan managed to retreat without injury.

Rescue operations were initiated immediately. Mr. Halchyshak arrived on the scene first, followed by Mr. B. Hutchings - Safety Foreman, Mr. B. Hadfield - the Mine Superintendent, and Dr A. Rich. The timber was jacked away from the scooptram and Mr. Brown removed from the seat. He was pronounced dead by Dr. Rich at 10.53 a.m.

An inquest under "The Fatalities Inquiry Act" was held before her Honour Judge Jane Maurer, on June 27, 1984, at Thompson.

The court reserved its decision.

POOR

QUALITY

ORIGINAL